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patent attorneys

March 3, 2005



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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on March 3, 2005.

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Date of Signature: March 3, 2005

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: U.S. Patent Application Serial No. 10/721,525 for
DICATIONIC 2.5-DIARYLFURAN AZA-ANALOGS AS
ANTI-PROTOZOAN AGENTS
Our Ref. No. 421/60/21/2

Sir:

Please find enclosed in connection with the subject U.S. patent application the following documents:

1. Information Disclosure Statement (2 pages);
2. Form PTO-1449 (3 pages) in duplicate;
3. Copies of cited references (18 references); and
4. A return-receipt postcard to be returned to us with the U.S. Patent and Trademark Office filing stamp thereon.

The Commissioner is hereby authorized to charge any fees associated with the filing of this correspondence to Deposit Account No. 50-0426.

Respectfully submitted,

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Boykin et al.

Group Art Unit: 1614

Serial No.: 10/721,525

Examiner: Not Assigned

Filed: November 25, 2003

Docket No.: 421/60/21/2

Confirmation No.: 5332

For: DICATIONIC 2.5-DIARYLFURAN AZA-ANALOGS AS ANTI-PROTOZOAN AGENTS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. 1.56, 1.97, and 1.98, applicants' undersigned attorney brings to the attention of the Patent and Trademark Office the documents listed on the attached Form PTO-1449. Copies of the references as well as Form PTO-1449 are attached hereto. This is not to be construed as a representation that a search has been made or that a reference is relevant merely because cited.

Early passage of the subject application to issue is earnestly solicited.

Serial No.: 10/721,525

Although it is believed that no fee is due, the Commissioner is hereby authorized to charge any fees associated with the filing of this Information Disclosure Statement to Deposit Account No. 50-0426.

Respectfully submitted,

JENKINS, WILSON & TAYLOR, P.A.

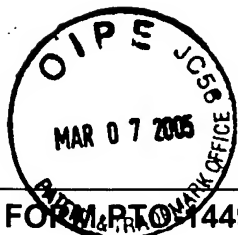
Date: March 3, 2005

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Enclosures

Customer No: 25297



FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Application No.:	10/721,525
Filing Date:	November 25, 2003
First Named Inventor:	Boykin
Group:	1614
Examiner:	

List of Documents Cited by Applicant

Attorney Docket No.:	421/60/21/2
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U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where relevant passages or relevant figures appear
	1.	6,706,754	3/16/2004	Werbovetz et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number (country code, no., kind code (if known))	Publication Date	Name of Patentee or Applicant	Pages, columns, lines where relevant passages appear
	2.	WO02/36588	5/10/2002	U.S. Army Med. Res. and Mat. Com.	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	3.	BELL ET AL., <i>Structure-Activity Relationships of Analogs of Pentamidine Against Plasmodium falciparum and Leishmania mexicana amazonensis</i> , <u>Antimicrobial Agents and Chemotherapy</u> 34(7) :1381-1386 (July 1990).
	4.	BELL ET AL., <i>Structure-Activity Relationships of Pentamidine Analogs against Giardia lamblia and Correlation of Anti giardial Activity with DNA-Binding Affinity</i> , <u>Antimicrobial Agents and Chemotherapy</u> 35(6) :1099-1107 (June 1991).

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office List of Documents Cited by Applicant		Application No.:	10/721,525
		Filing Date:	November 25, 2003
		First Named Inventor:	Boykin
		Group:	1614
		Examiner:	
		Attorney Docket No.:	421/60/21/2
	5.	BLAGBURN ET AL., <i>Inhibition of Cryptosporidium parvum in Neonatal Hsd:(ICR)BR Swiss Mice by Polyether Ionophores and Aromatic Amidines</i> , <u>Antimicrobial Agents and Chemotherapy</u> 35(7) :1520-1523 (July 1991).	
	6.	BOYKIN ET AL., <i>Dicationic Diarylfurans and Anti-pneumocystis carinii Agents</i> , <u>J. Med. Chem.</u> 38 :912-916 (1995).	
	7.	BOYKIN ET AL., <i>2,5-Bis[4-(N-alkylamidino)phenyl]furans as Anti-pneumocystis carinii Agents</i> , <u>J. Med. Chem.</u> 41 :124-129 (1998).	
	8.	DAS ET AL., <i>Synthesis and Antiprotozoal Activity of 2,5-Bis(4-guanylphenyl)furans</i> , <u>J. of Med. Chem.</u> 20(4) :531-536 (1977).	
	9.	DEL POETA ET AL., <i>Structure-in Vitro Activity Relationships of Pentamidine Analogues and Dication-Substituted Bis-Benzimidazoles as New Antifungal Agents</i> , <u>Antimicrobial Agents and Chemotherapy</u> 42(10) :2495-2502 (Oct. 1998).	
	10.	DEL POETA ET AL., <i>In Vitro Antifungal Activities of a Series of Dication-Substituted Cabazoles, Furans, and Benzimidazoles</i> , <u>Antimicrobial Agents and Chemotherapy</u> 42(10) :2503-2510 (Oct. 1998).	
	11.	DEL POETA ET AL., <i>In-vitro activity of dicationic aromatic compounds and fluconazole against Cryptococcus neoformans and Candida ssp</i> , <u>J. of Antimicrobial Chemotherapy</u> 44 :223-228 (1999).	
	12.	FRANCESCONI ET AL., <i>2,4-Diphenyl Furan Diamidines as Novel Anti-Pneumocystis-carinii Pneumonia Agents</i> , <u>J. Med. Chem.</u> 42 :2260-2265 (1999).	
	13.	KUMAR ET AL., <i>Palladium Catalyzed Cross-Coupling Reactions for the Synthesis of 2,5-disubstitutedfurans</i> , <u>Heterocyclic Comm.</u> 5 :301-304 (1999).	
	14.	LINDSAY ET AL., <i>Activity of Pentamidine and Pentamidine Analogs against Toxoplasma gondii in Cell Cultures</i> , <u>Antimicrobial Agents and Chemotherapy</u> 35(9) :1914-1916 (Sept. 1991).	
	15.	LING ET AL., <i>Models for Intramolecular Exchange in Organic π-Conjugated Open-Shell Systems: 3-Nitrenophenyl and 4-Nitrenophenyl Units Connected by 2,5-Furandiyl, 2,5-Thiophenediyl, and 2,5-Pyrrolediyl Nonalternant Exchange Linkers</i> , <u>J. Am. Chem. Soc.</u> 116 :8784-8792 (1994).	

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		First Named Inventor:	Boykin
		Group:	1614
		Examiner:	
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	16.	SHEARER ET AL., <i>S-2-Naphthylmethyl Thioacetimidate Hydrobromide: A New Odorless Reagent for the Mild Synthesis of Substituted Acetamidines</i> , <u>Tetrahedron Lett.</u> 38 :179-182 (1997).	
	17.	STEPHENS, ET AL., <i>Diguanidino and "Reversed" Diamindino 2,5-Diarylfurans as Antimicrobial Agents</i> , <u>J. Med. Chem</u> 44 :1741-1748 (2001).	
	18.	THOMPSON ET AL., <i>A General Synthesis of 5-Arylnicotinates</i> , <u>J. Org. Chem.</u> 49 :5237-5243 (1984).	

EXAMINER _____

DATE CONSIDERED _____

*Examiner Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.